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SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Huston, James S. Houston, L. L. Ring, David B. Oppermann, Hermann
- (ii) TITLE OF INVENTION: Biosynthetic Binding Proteins For Imaging
- (iii) NUMBER OF SEQUENCES: 11
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Testa, Hurwitz & Thibeault/Patent Department
 - (B) STREET: Exchange Place, 53 State Street
 - (C) CITY: Boston
 - (D) STATE: . Hassachusetts
 - (E) COUNTRY: USA
 - (F) ZIP: 02109
 - (V) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Kelley, Robin D.
 - (B) REGISTRATION NUMBER: 34,637
 - (C) REFERENCE/DOCKET NUHBER: 2054/22
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 617-248-7477
 - (B) TELEFAX: 617-248-7100
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 909 base pairs
 - (B) TYPE: nucleic acid.
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: cDNA	TEC
<pre>(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: 3752 (D) OTHER INFORMATION: /product= "741F8 sFv' C-terminal Gly4-Cys" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:</pre>	"ECH CENTER 1600/2900
CC ATG GCG GAG ATC CAA TTG GTG CAG TCT GGA CCT GAG CTG AAG AAG Met Ala Glu Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys 1 5 10 15	47 -
CCT GGA GAG ACA GTC AAG ATC TCC TGC AAG GCT TCT GGG TAT ACC TTC Pro Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe 20 25 30	95
ACA AAC TAT GGA ATG AAC TGG GTG AAG CAG GCT CCA GGA AAG GGT TTA Thr Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu 35 40 45	143
AAG TGG ATG GGC TGG ATA AAC ACC AAC ACT GGA GAG CCA ACA TAT GCT Lys Trp Met Gly Trp Ile Asn Thr Asn Thr Gly Glu Pro Thr Tyr Ala 50 55 60	191
GAA GAG TTC AAG GGA CGG TTT GCC TTC TCT TTG GAA ACC TCT GCC AGC Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser 65 70 75	239
ACT GCC TAT TTG CAG ATC AAC AAC CTC AAA AAT GAG GAC ACG GCT ACA Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Thr Ala Thr 80 85 90 95.	287
TAT TTC TGT GGA AGG CAA TTT ATT ACC TAC GGC GGG TTT GCT AAC TGG Tyr Phe Cys Gly Arg Gln Phe Ile Thr Tyr Gly Gly Phe Ala Asn Trp 100 105 110	335
GGC CAA GGG ACT CTG GTC ACT GTC TCT GCA TCG AGC TCC TCC GGA TCT Gly Gln Gly Thr Leu Val Thr Val Ser Ala Ser Ser Ser Ser Gly Ser 115	383
TCA TCT AGC GGT TCC AGC TCG AGC GAT ATC GTC ATG ACC CAG TCT CCT Ser Ser Ser Gly Ser Ser Ser Ser Asp Ile Val Het Thr Gln Ser Pro 130 135 140	431
AAA TTC ATG TCC ACG TCA GTG GGA GAC AGG GTC AGC ATC TCC TGC AAG Lys Phe Het Ser Thr Ser Val Gly Asp Arg Val Ser Ile Ser Cys Lys 145 150 155	479





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TECH CENTER 1600/2900

- 60 -

GCC Ala 160	AGT Ser	CAG Gln	GAT Asp	GTG Val	AGT Ser 165	ACT Thr	GCT Ala	GTA Val	GCC Ala	TGG Trp 170	TAT Tyr	CAA Gln	CAA Gln	AAA Lys	CCA Pro 175		527
GGG Gly	CAA Gln	TCT Ser	CCT Pro	AAA Lys 180	CTA Leu	CTG Leu	ATT Ile	TAC Tyr	TGG Trp 185	ACA Thr	TCC Ser	ACC Thr	CGG Arg	CAC His 190	ACT Thr		575
GGA Gly	GTC Val	CCT Pro	GAT Asp 195	CGC Arg	TTC Phe	ACA Thr	GGC Gly	AGT Ser 200	GGA Gly	TCT Ser	GGG Gly	ACA Thr	GAT Asp 205	TAT Tyr	ACT Thr		623
CTC Leu	ACC Thr	ATC Ile 210	AGC Ser	AGT Ser	GTG Val	CAG Gln	GCT Ala 215	GAA Glu	GAC Asp	CTG Leu	GCA Ala	CTT Leu 220	III	TAC Tyr	TGT Cys		671
CAG Gln	CAA Gln 225	CAT His	TAT Tyr	AGA Arg	GTG Val	CCG Pro 230	TAC Tyr	ACG Thr	TTC Phe	GGA Gly	GGG Gly 235	Gra	ACC Thr	AAG Lys	CTG Leu		719
GAG Glu 240	ATA Ile	AAA Lys	CGG Arg	GCT Ala	GAT Asp 245	GGG Gly	GGA Gly	GGT Gly	GGA Gly	TGT Cys 250		CGGG	GGA	GGTG	GATGT"	T _,	772
GGG'	TCTC	GTT	ACGT	TGCG	GA T	CTCG	AGGC	TA T	CTTT	ACTA	ACT	CTTA	CCG	AAAT	GTTCT	G	832
															TCGAC		892
	AGGC																909

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 250 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Ala Glu Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro 1 5 10 15

Gly Glu Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr 20 25 30

Asn Tyr Gly Het Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu Lys
35 40 45



Trp Het Gly Trp Ile Asn Thr Asn Thr Gly Glu Pro Thr Tyr Ala Glu Glu Phe Lys Gly Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Ser Thr Ala Tyr Leu Gln Ile Asn Asn Leu Lys Asn Glu Asp Thr Ala Thr Tyr Phe Cys Gly Arg Gln Phe Ile Thr Tyr Gly Gly Phe Ala Asn Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala Ser Ser Ser Ser Gly Ser Ser Ser Ser Gly Ser Ser Ser Ser Asp Ile Val Met Thr Gln Ser Pro Lys 135 Phe Met Ser Thr Ser Val Gly Asp Arg Val Ser Ile Ser Cys Lys Ala 150 Ser Gln Asp Val Ser Thr Ala Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Trp Thr Ser Thr Arg His Thr Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Leu His Tyr Cys Gln 215 210 Gln His Tyr Arg Val Pro Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala Asp Gly Gly Gly Cys

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 779 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA

RECENTER 1800/2900



(ix) FEATURE:

- (A) NAME/KEY: CDS
 (B) LOCATION: 3..758
 (D) OTHER INFORMATION: /product= "26-10 sfv' with C-terminal Gly4-Cys"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	8.
CC ATG GAA GTT CAA CTG CAA CAG TCT GGT CCT GAA TTG GTT AAA CCT Met Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro 1 5 10	47
GGC GCC TCT GTG CGC ATG TCC TGC AAA TCC TCT GGG TAC ATT TTC ACC Gly Ala Ser Val Arg Het Ser Cys Lys Ser Ser Gly Tyr Ile Phe Thr 20 25 30	95
GAC TTC TAC ATG AAT TGG GTT CGC CAG TCT CAT GGT AAG TCT CTA GAC Asp Phe Tyr Het Asn Trp Val Arg Gln Ser His Gly Lys Ser Leu Asp 35	143
TAC ATC GGG TAC ATT TCC CCA TAC TCT GGG GTT ACC GGC TAC AAC CAG Tyr Ile Gly Tyr Ile Ser Pro Tyr Ser Gly Val Thr Gly Tyr Asn Gln 50 55 60	191
AAG TTT AAA GGT AAG GCG ACC CTT ACT GTC GAC AAA TCT TCC TCA ACT Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr 65	239
GCT TAC ATG GAG CTG CGT TCT TTG ACC TCT GAG GAC TCC GCG GTA TAC Ala Tyr Met Glu Leu Arg Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr 80 90 95	287
TAT TGC GCG GGC TCC TCT GGT AAC AAA TGG GCC ATG GAT TAT TGG GGT Tyr Cys Ala Gly Ser Ser Gly Asn Lys Trp Ala Met Asp Tyr Trp Gly 100 . 105	335
CAT GGT GCT AGC GTT ACT GTG AGC TCC TCC GGA TCT TCA TCT AGC GGT His Gly Ala Ser Val Thr Val Ser Ser Ser Gly Ser Ser Ser Ser Gly 115	383
TCC AGC TCG AGT GGA TCC GAC GTC GTA ATG ACC CAG ACT CCG CTG TCT Ser Ser Ser Gly Ser Asp Val Val Het Thr Gln Thr Pro Leu Ser 130	431
CTG CCG GTT TCT CTG GGT GAC CAG GCT TCT ATT TCT TGC CGC TCT TCC Leu Pro Val Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser 145	479
CAG TCT CTG GTC CAT TCT AAT GGT AAC ACT TAC CTG AAC TGG TAC CTG Gln Ser Leu Val His Ser Asn Gly Asn Thr Tyr Leu Asn Trp Tyr Leu 160 165 170 175	



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									TEC	H CEI	VTER	1600)/29n/	n .		
CAA Gln	AAG Lys	GCT Ala	GGT Gly	CAG Gln 180	TCT Ser	CCG Pro	AAG Lys	CTT Leu	CTG	ATC Ile	TAC	AAA	GTC	TCT	AAC Asn	575
CGC	TTC Phe	TCT Ser	GGT Gly 195	GTC Val	CCG Pro	GAT Asp	CGT Arg	TTC Phe 200	TCT Ser	GGT Gly	TCT Ser	GGT Gly	TCT Ser 205	GGT Gly	ACT Thr	623
GAC Asp	TTC Phe	ACC Thr 210	CTG Leu	AAG Lys	ATC Ile	TCT Ser	CGT Arg 215	GTC Val	GAG Glu	GCC Ala	GAA Glu	GAC Asp 220	CTG Leu	GGT Gly	ATC Ile	671
TAC Tyr	TTC Phe 225	TGC Cys	TCT Ser	CAG Gln	ACT Thr	ACT Thr 230	CAT His	GTA Val	CCG Pro	CCG Pro	ACT Thr 235	TTT Phe	GGT Gly	GGT Gly	GGC Gly	719
ACC Thr 240	AAG Lys	CTC Leu	GAG Glu	ATT Ile	AAA Lys 245	CGT Arg	TCC Ser	GGG Gly	GGA Gly	GGT Gly 250	GGA Gly	TGT Cys	TAAC	CTGC	\GC	768
CCG	GGGA	ATC (779
(2)	INFO)RHA]	NOI	FOR	SEQ	ID N	10:4:	•								
	((i) S	(A) (B)	LEN TYI		252 umino	2 am:			5						
	(:	ii) l	iOLE	CULE	TYP	E: p1	rote:	in								
	(2	ki) S	SEQUI	ENCE	DESC	CRIPT	NOI	: SE	Q ID	NO:	4:					
Met 1	Glu	Val	Gln	Leu 5	Gln	Gln	Ser	Gly	Pro 10	Glu	Leu	Val	Lys	Pro 15	бlу	
Ala	Ser	Val	Arg 20	Кеt	Ser	Cys	Lys	Ser 25	Ser	Gly	Туг	Ile	Phe 30	Thr	Asp	
Phe	Tyr	Met 35	Asn	Trp	Val	Arg	Gln 40	Ser	His	Gly	Lys	Ser 45	Leu	Asp	Tyr	
Ile	Gly 50	Tyr	Ile	Ser	Pro	Tyr 55		Gly	Val	Thr	Gly 60	Tyr	Asn	Gln	Lys	
Phe 65	Lys	Gly	Lys	Ala	Thr 70	Leu	Thr	Val	Asp	Lys 75	Ser	Ser	Ser	Thr	Ala 80	
Tyr	Het	Glu	Leu	Arg 85	Ser	Leu	Thr	Ser	Glu 90	Asp	Ser	Ala	Val	Tyr 95	Tyr	



Cys Ala Gly Ser Ser Gly Asn Lys Trp Ala Met Asp Tyr Trp Gly His Gly Ala Ser Val Thr Val Ser Ser Ser Gly Ser Ser Ser Ser Gly Ser Ser Ser Ser Gly Ser Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln 150 Ser Leu Val His Ser Asn Gly Asn Thr Tyr Leu Asn Trp Tyr Leu Gln Lys Ala Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg 180 Phe Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Leu Gly Ile Tyr Phe Cys Ser Gln Thr Thr His Val Pro Pro Thr Phe Gly Gly Gly Thr 235 230 225 Lys Leu Glu Ile Lys Arg Ser Gly Gly Gly Cys

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 739 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDMA
- (ix) FEATURE:
 - (A) NAME/KEY: CDS
 - (B) LOCATION: 1..729
 - (D) OTHER INFORMATION: /product= "520C9 sFv polypeptide sequence"



(xi)	SEQUENCE	DESCRIPTION:	SEQ	ID	NO:5:

	(xi)	SEQ	UENC	E DE	SCRI	PTIC	N: S	EQ 1	טא ע	:::						
GAG Glu l	ATC Ile	CAA Gln	TTG Leu	GTG Val 5	CAG Gln	TCT Ser	GGA Gly	CCT Pro	GAG Glu 10	CTG Leu	AAG Lys	AAG Lys	CCT Pro	GGA Gly 15	GAG Glu	48
ACA Thr	GTC Val	AAG Lys	ATC Ile 20	TCC Ser	TGC Cys	AAG Lys	GCT Ala	TCT Ser 25	GGA Gly	TAT Tyr	ACC Thr	TTC Phe	GCA Ala 30	AAC Asn	TAT Tyr	96
GGA Gly	ATG Met	AAC Asn 35	TGG Trp	ATG Het	AAG Lys	CAG Gln	GCT Ala 40	CCA Pro	GGA Gly	AAG Lys	GGT Gly	TTA Leu 45	AAG Lys	TGG Trp	ATG Het	144
GGC Gly	TGG Trp 50	ATA Ile	AAC Asn	ACC Thr	TAC Tyr	ACT Thr 55	GGA Gly	CAG Gln	TCA Ser	ACA Thr	TAT Tyr 60	GCT Ala	GAT Asp	GAC Asp	TTC Phe	192
AAG Lys 65	GAA Glu	CGG Arg	TTT Phe	GCC Ala	TTC Phe 70	TCT Ser	TTG Leu	GAA Glu	ACC Thr	TCT Ser 75	GCC Ala	ACC Thr	ACT Thr	GCC Ala	CAT His 80	240
TTG Leu	CAG Gln	ATC Ile	AAC Asn	AAC Asn 85	CTC Leu	AGA Arg	AAT Asn	GAG Glu	GAC Asp 90	TCG Ser	GCC Ala	ACA Thr	TAT Tyr	TTC Phe 95	TGT Cys	288
GCA Ala	AGA Arg	CGA Arg	TTT Phe 100	GGG Gly	TTT Phe	GCT Ala	TAC Tyr	TGG Trp 105	GGC Gly	CAA Gln	GGG Gly	ACT Thr	CTG Leu 110	GTC Val	AGT Ser	336
GTC Val	TCT Ser	GCA Ala 115	Ser	ATA Ile	TCG Ser	AGC Ser	TCC Ser 120	TCC Ser	GGA Gly	TCT Ser	TCA Ser	TCT Ser 125	Ser	GGT Gly	TCC Ser	384
AGC Ser	TCG Ser 130	AGT Ser	GGA Gly	TCC Ser	GAT Asp	ATC Ile 135	Gln	ATG Het	ACC	CAG Gln	TCT Ser 140	PFO	TCC Ser	TCC Ser	TTA Leu	432
TCT Ser 145	Ala	TCT Ser	CTG Leu	GGA Gly	GAA Glu 150	Arg	GTC Val	AGT Ser	CTC	ACT Thr 155	Cys	CGG	GCA Ala	AGT	CAG Gln 160	480
GAC Asp	ATT Ile	GGT Gly	AAT Asn	AGC Ser 165	Leu	ACC	TGG	CTI Lev	CAC Glr 170	Gin	GAA Glu	CCA Pro	GAT Asp	GGA Gly 175	ACT	528
ATI Ile	AAA Lys	CGC	CTG Lev 180	Ιlε	TAC Tyr	GCC	C ACA	TC0 Ser 185	Sei	TTA Leu	GA? 1 Asp	TCI Sei	GGT Gly 190	Val	CCC Pro	576



AAA Lys	AGG Arg	TTC Phe 195	AGT Ser	GGC Gly	AGT Ser	CGG Arg	TCT Ser 200	GGG Gly	TCA Ser	GAT Asp	TAT Tyr	TCT Ser 205	CTC Leu	ACC Thr	ATC Ile	624
AGT Ser	AGC Ser 210	CTT Leu	GAG Glu	TCT Ser	GAA Glu	GAT Asp 215	TTT Phe	GTA Val	GTC Val	TAT Tyr	TAC Tyr 220	TGT Cys	CTA Leu	CAA Gln	TAT Tyr	672
GCT Ala 225	ATT Ile	TTT Phe	CCG Pro	TAC Tyr	ACG Thr 230	TTC Phe	GGA Gly	GGG Gly	GGG Gly	ACC Thr 235	AAC Asn	CTG Leu	GAA Glu	ATA Ile	AAA Lys 240	720
	GCT Ala	GAT Asp	TAAT	CTG	CAG											739

(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 243 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Glu Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Lys Pro Gly Glu
1 5 10 15

Thr Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ala Asn Tyr 20 25 30

Gly Het Asn Trp Het Lys Gln Ala Pro Gly Lys Gly Leu Lys Trp Het
35 40 45

Gly Trp Ile Asn Thr Tyr Thr Gly Gln Ser Thr Tyr Ala Asp Asp Phe 50 55 60

Lys Glu Arg Phe Ala Phe Ser Leu Glu Thr Ser Ala Thr Thr Ala His
65 70 75 80

Leu Gln Ile Asn Asn Leu Arg Asn Glu Asp Ser Ala Thr Tyr Phe Cys
85 90 95

Ala Arg Arg Phe Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Ser 100 105 110

Val Ser Ala Ser Ile Ser Ser Ser Ser Gly Ser Ser Ser Ser Gly Ser 115 120 125



(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (ix) FEATURE:

Arg Ala Asp

- (A) NAME/KEY: Protein
- (B) LOCATION: 1..15
- (D) OTHER INFORMATION: /note= "Linker 1"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
- Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser 10 Ser 15



- (2) INFORMATION FOR SEQ ID NO:8:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (ix) FEATURE:
 - (A) NAME/KEY: Protein
 - (B) LOCATION: 1..15
 - (D) OTHER INFORMATION: /note= "LINKER 2"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Ser Ser Ser Ser Gly Ser Ser Ser Ser Gly Ser Ser Ser Gly

- (2) INFORMATION FOR SEQ ID NO:9:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (ix) FEATURE:
 - (A) NAME/KEY: Protein
 - (B) LOCATION: 1..2
 - (D) OTHER INFORMATION: /note= "C-Terminal Tail (Ser-Cys)"
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Ser Cys 1

- (2) INFORMATION FOR SEQ ID NO:10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: protein

(ix) FEATURE:

- (A) NAME/KEY: Protein
- (B) LOCATION: 1..5
- (D) OTHER INFORMATION: /note= "C-Terminal Tail (Gly-Gly-Gly-Cys)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Gly Gly Gly Cys

- (2) INFORMATION FOR SEQ ID NO:11:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 11 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: protein
 - (ix) FEATURE:
 - (A) NAME/KEY: Protein
 - (B) LOCATION: 1..11
 - (D) OTHER INFORMATION: /note= "C-Terminal Tail (His-His-His-His-His-Gly-Gly-Gly-Cys)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

His His His His His Gly Gly Gly Cys